

## **Preliminary 2019 Salmon Enhancement Production in Japan**

by

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Four species of anadromous Pacific salmon (chum, pink, masu, and sockeye salmon) are currently enhanced in Japan. A total of 1,918 million fry, juveniles and smolts were released from Japanese hatcheries in 2019 (Tables 1 and 2). Number of chum salmon fry released in the spring of 2019 was approximately 1,780 million fish. Japanese hatcheries also released 130 million pink salmon fry, 7,725 thousand masu salmon fry, juveniles and smolts, and 184 thousand sockeye salmon fry and smolts in the spring and fall of 2019.

In 2019, the number of adult salmon captured in rivers along the Japanese coasts was 3,085 thousand fish (Table 3), which corresponded to 9,540 metric tonnes in weight (Table 4). The dominant and second dominant species were chum and pink salmon, contributing 92.5% and 7.2% in numbers of all salmon captured in rivers, respectively. Adult masu salmon occur in rivers of both Hokkaido and Honshu, but number of catches was not available in Honshu. The number of adult masu salmon caught in rivers of Hokkaido was approximately 9.0 thousand fish. Anadromous sockeye salmon were caught in two rivers along the Pacific coast of Hokkaido, where the number of catches was 2,192 fish.

**Table 1.** Number (in thousands) of anadromous salmon released from Japanese hatcheries in 2019.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	660,888	184	635,985	24,371	348
Japan Sea Coast	205,759		201,980	2,475	1,304
Okhotsk Sea Coast	361,395		257,573	102,717	1,105
<b>Honshu</b>					
Pacific Coast	572,507		571,188		1,319
Japan Sea Coast	117,340		113,690		3,649
<b>Total</b>	<b>1,917,888</b>	<b>184</b>	<b>1,780,416</b>	<b>129,563</b>	<b>7,725</b>

**Table 2.** Weight (in tonnes) of anadromous salmon released from Japanese hatcheries in 2019.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	717.5	1.9	706.9	6.4	2.3
Japan Sea Coast	227.8		217.9	0.5	9.4
Okhotsk Sea Coast	327.7		295.9	28.5	3.4
<b>Honshu</b>					
Pacific Coast	823.7		811.7		12.1
Japan Sea Coast	117.8		102.7		15.2
<b>Total</b>	<b>2,214.7</b>	<b>1.9</b>	<b>2,135.0</b>	<b>35.4</b>	<b>42.4</b>

**Table 3.** Number (in thousands) of adult salmon caught in rivers along Japanese coasts in 2019.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	791.3	2.2	786.9	1.6	0.6
Japan Sea Coast	468.1		463.2		4.9
Okhotsk Sea Coast	1,309.8		1,086.4	220.0	3.4
<b>Honshu</b>					
Pacific Coast	239.3		239.3		NA*
Japan Sea Coast	276.6		276.6		NA*
<b>Total</b>	<b>3,085.1</b>	<b>2.2</b>	<b>2,852.4</b>	<b>221.6</b>	<b>8.9</b>

\*NA, Data not available.

**Table 4.** Weight (in tonnes) of adult salmon caught in rivers along Japanese coasts in 2019.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	2,526.4	2.5	2,520.7	2.7	0.6
Japan Sea Coast	1,364.6		1,354.9		9.7
Okhotsk Sea Coast	4,035.7		3,631.2	401.4	3.0
<b>Honshu</b>					
Pacific Coast	829.3		829.3		NA*
Japan Sea Coast	784.3		784.3		NA*
<b>Total</b>	<b>9,540.3</b>	<b>2.5</b>	<b>9,120.4</b>	<b>404.1</b>	<b>13.3</b>

\*NA, Data not available.